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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/088,103	8,103 03/22/2002 Takanao Uchida		106145-00034	5036	
4372	7590 03/11/2004	EXAMINER			
	X KINTNER PLOTKIN CTICUT AVENUE, N.W	RAPP, C	RAPP, CHAD		
SUITE 400	encor avenoe, w.	ART UNIT	PAPER NUMBER		
WASHINGTO	ON, DC 20036	2125			
•			DATE MAILED: 03/11/2004	. =1	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

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- 3:		A	pplication No.	Applicant(s)	A		
			0/088,103	UCHIDA ET AL.			
Office Action Summary		E	xaminer	Art Unit			
		c	had Rapp	2125			
The MA Period for Reply	ILING DATE of this commu	nication appear	rs on the cover sheet with t	he correspondence addres	S		
THE MAILING - Extensions of time after SIX (6) MON' - If the period for rep. - If NO period for reply with Any reply received	DATE OF THIS COMMUN may be available under the provision THS from the mailing date of this comply specified above is less than thirty (ply is specified above, the maximum shin the set or extended period for replacements.)	NICATION. is of 37 CFR 1.136(a imunication. (30) days, a reply with statutory period will a ly will, by statute, cau	S SET TO EXPIRE 3 MON In no event, however, may a reply the statutory minimum of thirty (30 pply and will expire SIX (6) MONTHS use the application to become ABAND e of this communication, even if timely	pe timely filed) days will be considered timely. from the mailing date of this commur ONED (35 U.S.C. § 133).	lication.		
Status							
1)⊠ Resnons	ive to communication(s) fil	led on 22 Marc	h 2002				
2a) ☐ This action	·		tion is non-final.				
′=		,		prosecution as to the mei	rits is		
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Cla	ims						
	<u>1-3</u> is/are pending in the a	• •					
	e above claim(s) is/a	are withdrawn	from consideration.				
· `	is/are allowed.						
· <u> </u>	<u>1-3</u> is/are rejected.						
	is/are objected to.						
8) Claim(s)	are subject to restri	iction and/or el	ection requirement.				
Application Paper	rs .						
	fication is objected to by the						
10)∏ The draw	ing(s) filed on is/are	e: a)∏ accept	ed or b)⊡ objected to by t	he Examiner.			
			wing(s) be held in abeyance.				
	*	_	is required if the drawing(s) is	•	` '		
11)∐ The oath	or declaration is objected (to by the Exam	iner. Note the attached Of	fice Action or form PTO-18	52.		
Priority under 35	U.S.C. § 119						
a)⊠ All b) 1.⊠ Ce 2.□ Ce 3.□ Co ap	Some * c) None of: rtified copies of the priority rtified copies of the priority pies of the certified copies plication from the Internation	documents had documents had documents had of the priority onal Bureau (F	ave been received in Applidocuments have been received Rule 17.2(a)).	cation No eived in this National Stag	e		
* See the at	tached detailed Office action	on tor a list of t	he certified copies not rece	eived.			
Attachment(s)							
1) Notice of Referen	nces Cited (PTO-892)		4) 🔲 Interview Summ	nary (PTO-413)			
2) D Notice of Draftspo	erson's Patent Drawing Review (Paper No(s)/Ma	il Date			
3) 🔀 Information Discle Paper No(s)/Mail	osure Statement(s) (PTO-1449 o Date <u>2</u> .	r PTO/SB/08)	6) Other:	nal Patent Application (PTO-152)			

Art Unit: 2125

1. Claims 1-3 are presented for examination.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 3 "the drawings" should be changed to "drawings".

In claim 2, line 6 "the defects exist" should be changed to "defects exist".

In claim 2, line 10 "the drawings" should be changed to "drawings".

In claim 3, line 7 "the defects exist" should be changed to "defects exist".

In claim 3, line 15 "the drawings" should be changed to "drawings".

There is insufficient antecedent basis for the limitations in the above claims.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Weber et al. in view of Sartiono et al.

Art Unit: 2125

Weber et al. teaches the claimed invention(claim 1) substantially as claimed including a design method of a product with three0dimensional model comprising:

a. A CAE analysis is performed for said three-dimensional CAM model is taught as a vehicle method system which supports a computer aided CAE(col. 2 lines 27-29);

b. The drawings of a product are prepared with the results of said CAE analysis is taught as an occupant interactions are determined and these interactions are reported or display to a user(col. col. 6 lines 19-67).

Weber teaches the above listed details of independent claim 1, however, Weber does not teach: a three-dimensional CAM model is prepared.

Sartiono et al. teaches:

a. A three-dimensional CAM model is prepared is taught as CAD/CAE/CAM model is used for desinging parts(page 1 paragraph [0002] to [0004]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made or used to modify Weber et al. with the teachings or Sartiono et al. because Sartiono et al. provides a design system and method, which enables new parts of a design unit to be designed or constructed in a time-saving and cost-effective manner.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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7. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Weber et al. in view of Sartiono et al.

Weber et al. teaches the claimed invention(claim 2) substantially as claimed including a design method of a product with three0dimensional model comprising:

- a. A second step to perform a CAE analysis for said three-dimensional CAM model is taught as a vehicle method system which supports a computer aided CAE(col. 2 lines 27-29);
- b. A third step to correct said three-dimensional CAM model on the basis of said CAE analysis if the defects exist is taught as an adjustment to the vehicle design(col. 7 lines 14-22);
- c. A fourth step to manufacture a trial product on the basis of said three-dimensional CAM model is taught as the three-dimensional "buck" (a physical representation) is used (col. 1 lines 25-42);
- d. A fifth step to test said trial product is taught as methods are used to determine whether a proposed design(buck) meets human factors(col. 1 lines 25-42);
- e. A sixth step to prepare the drawings on the basis of the results of said test is taught as regeneration of the entire vehicle design is electronically performed(col. 7 lines 14-22).

Weber teaches the above listed details of independent claim 2, however, Weber does not teach: a first step to prepare three-dimensional CAM model.

Sartiono et al. teaches:

a. A first step to prepare a three-dimensional Cam model is taught as CAD/CAE/CAM model is used for designing parts(page 1 paragraph [0002] to [0004]).

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It would have been obvious to one of ordinary skill in the art at the time the invention was made or used to modify Weber et al. with the teachings or Sartiono et al. because Sartiono et al. provides a design system and method, which enables new parts of a design unit to be designed or constructed in a time-saving and cost-effective manner.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Weber et al. in view of Sartiono et al.

Weber et al. teaches the claimed invention(claim 3) substantially as claimed including a design method of a product with three0dimensional model comprising:

- a. A second step to perform a CAE analysis for said three-dimensional CAM model is taught as a vehicle method system which supports a computer aided CAE(col. 2 lines 27-29);
- b. A third step to correct said three-dimensional CAM model on the basis of said CAE analysis if the defects exist is taught as an adjustment to the vehicle design(col. 7 lines 14-22);
- c. A fourth step to manufacture a trial product on the bass of said three-dimensional CAM model is taught as the three-dimensional "buck"(a physical representation) is used(col. 1 lines 25-42);

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d. A fifth step to test said trial product is taught as methods are used to determine whether a proposed design(buck) meets human factors(col. 1 lines 25-42);

- e. A sixth step to correct said three-dimensional Cam model on the basis on the results of said test if the defects exist is taught as an adjustment to the vehicle design(col. 7 lines 14-22);
- f. A seventh step to iterate said fourth through sixth steps until the defects are solved is taught as the variations can be iteratively accomplished until human factors are met(col. 7 line 1-13);
- g. An eighth step to prepare the drawings on basis of the three-dimensional CAM model obtained at said seventh step is taught as regeneration of the entire vehicle design is electronically performed(col. 7 lines 14-22).

Weber teaches the above listed details of independent claim 2, however, Weber does not teach: a first step to prepare three-dimensional CAM model.

Sartiono et al. teaches:

a. A first step to prepare a three-dimensional Cam model is taught as CAD/CAE/CAM model is used for designing parts(page 1 paragraph [0002] to [0004]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made or used to modify Weber et al. with the teachings or Sartiono et al. because Sartiono et al. provides a design system and method, which enables new parts of a design unit to be designed or constructed in a time-saving and cost-effective manner.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chad Rapp whose telephone number is (703)306-4528. The examiner can normally be reached on Mon-Fri 11:00-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard can be reached on (703)308-0538. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J- P. (?)

Chad Rapp Examiner Art Unit 2125

cjr

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